Model	24101	24102
Generation	CF-Super	CF-Su
Magnification	3	4
Lens diameter, mm	50	50
Field of View,°	13	13
Range of detection, m (object 1,7m high, illumination level 0,05 lux("1/4 moon")	180	200
Min. focusing distance, m	2.5	2.5
Eye Relief, mm	12	12
Exit Pupil, mm	6	6
Diopter adjustment, dptr.	± 5	± 4
Resolution, lines per mm	40/ 32	40 /32
IR Wavelenght, nm	805	805
Equivalent IR Power, mW	100	100
Power Supply, V	3	3
Battery type	1xCR123	1xCR
Battery Life (with IR), hour	8	8
Battery Life (w/out IR), hour	50	50
Tripod Mount, inch	1/4	1/4
Operating Temp,°C	-30 … +40	-30 …
Level of Protection (acc. to IEC 60529)	IPX4	IPX4
Length, mm	198	198
Width, mm	87	87
Height, mm	60	60
Weight (without batteries), kg	0.5	0.5

PACKAGE CONTENTS

Exelon unit
Carrying case
User manual
Cleaning cloth
Warranty card

OVERVIEW

The Exelon night vision monocular with a super tube is a professional device with enhanced image quality through whole field of view. A unique optical arrangement of the objective, coupled with a new, specially designed tube o type, has contributed to the high resolution and absence of distortion on the whole field of view. This unit operates the passive mode (without man-made sources of light) and in the active mode (with the IR illuminator on). The E designed for outdoor observation, guarding and terrain orientation within a wide range of natural night light - from to utter darkness.
The Exelon has a built-in IR-illuminator intended for use in moonless cloudy conditions in total darkness.
The unit is equipped with two 1/4 inch sockets which allow it to be fixed on the headmount and used as gog surface is rugged for extreme field conditions. However, damage may occur if the unit is dropped. The Exelon uni self-contained and can work up to 50 hours on one CR123A battery at temperatures from -30 °C~+ 40 °C.

Your Exelon is ideal for professional and amateur use, including:

- Night observation in natural environment
- Search and rescue
- Boating
- Repair and maintenance of equipment

PECULIARITIES OF USE

Your night vision device Exelon is designed to provide many years of reliable service.
To ensure high performance you should adhere to the following rules:

- Do not direct a unit in the "on" position at intense sources of light, such as car's headlights or burning fi may disable the unit for an unknown length of time or cause a dark spot in the center of the field of view. turn the unit on in daylight without the protective cap firmly secured over the objective lens, as this may the unit.
- Any such damage may void the warranty.
- Never leave the unit in the "on" position over an extended length of time in an area with a light level exce 10 lux (twilight - 10lux, deep twilight - 1 lux). Please keep the protective cap on the objective under grea level.
- Your Exelon was designed to be self-contained. Do not open the body of the scope or otherwise attempt to this device. If such need arises return the unit for replacement or repair.
- Protect the device from exposure to direct sunlight and extreme temperatures.
- Avoid dropping or otherwise shocking the unit. The device incorporates a sophisticated optical system whic be damaged in extreme cases of misuse.
- Clean optical parts (lenses) with professional lens cleaning supplies designed for use with multicoated optics

Damage to this device from failure to observe these warnings may void the device's warranty!

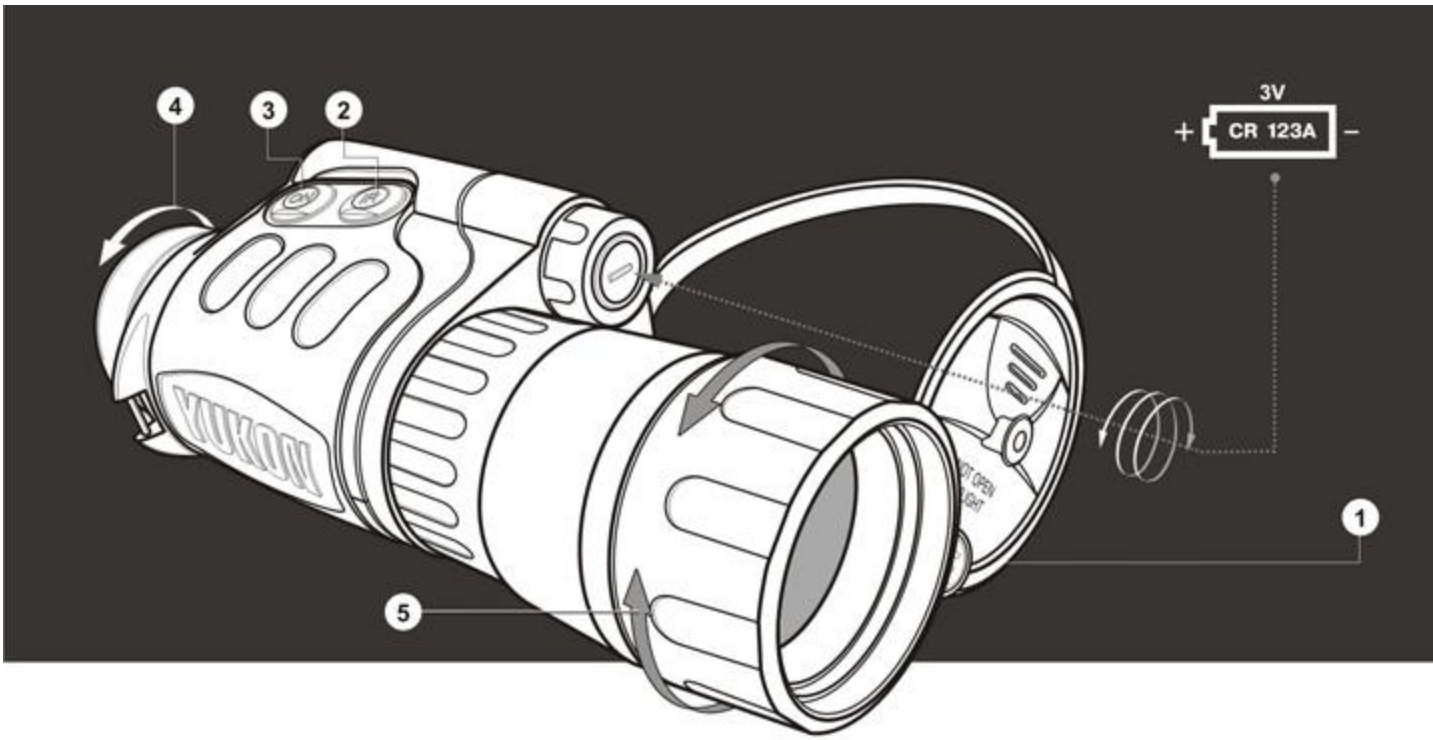
BATTERY INSTALLATION

Your Exelon runs on 1 CR123A battery. To install, unscrew the battery compartment cover, insert the battery i
battery compartment so that the positive (+) and negative (-) terminals of the battery match the markings in
compartment, replace the battery cover carefully.
Do not overtighten.

USE AND TESTING

Make sure that the battery has been installed according to instructions found in the battery installation section
manual.

- Enter a dark area before turning on the device.
- Remove the objective cap (1) and fix it on the left side of the housing.
- Activate the device by pushing the "ON" button (3).
- You can test your device in a light area without removing the protective cap. This will not damage your unit
- If the subject to be viewed is in a completely dark area, including lowlight shadow areas; activate the
  illuminator by pressing the "IR" button (2) located next to "ON" button.
- Direct your Exelon at an object at a distance of approximately 100m. Adjust the eyepiece and objective lens
  setting to focus the unit by rotating the eyepiece (4) and objective lens (5).
- After the adjustment, do not rotate the eyepiece irrespective of the distance and other conditions.
- Direct your Exelon at the subject to be viewed and adjust the final focus by rotating the objective lens (5) f
  ring until the image quality is optimal.
- When you are finished using your Exelon put the cap back on the objective and place the unit in the carryi
  If the green (operation status) and red indicators (IR) are lit, you need to push the respective buttons to tu
  off.



CAUTION!

Your Exelon can be used in extreme cold. However, when the unit is brought back into a warm environment, you wait approximately 2-3 hours before using the unit again. Failure to do so may result in damage as a result of cond accumulating on the internal circuitry of the unit.

MAINTENANCE

- Clean the lens with professional lens cleaning supplies intended for use with multicoated optics.
- Blow any dust or dirt off the lenses using dry, compressed air.
- Clean the Exelon housing with petrolium jelly applied by a soft, clean cloth.

STORAGE

Always store the Exelon (in its case) in a dry, well-ventilated area away from heating/air conditioning vents (heating devices). Remove the battery if the device is to be stored for longer than 2 months.

TROUBLESHOOTING

The scope will not turn on.
Check that the battery is installed properly. Install the battery according to the (+) and (-) polarity, ensuring markings on the battery and battery compartment correspond with one another. Check the battery contact to ens clean and free of corrosion; if necessary, clean the contact. Make sure that the external contact lug is not br necessary, replace the battery as it may be depleted. Also, be sure that the power is in the "ON" position when t turn on the scope.

Distinct black dots appear on the screen.
These dots are minor cosmetic blemishes resulting from tube production processes and do not interfere with the r

or performance of the scope.

The scope flickers, flashes or "snows".
The scope may flicker or flash when used in a bright environment; to correct this, place the cap over the objective l
enter a dark environment. The scope will restore itself to a natural functioning state in several minutes or hours, de
on how long the scope had been exposed to the light.
The scope may flicker for the first several seconds of use, even when in a dark environment, before the scope
itself and functions properly.
The scope may "snow" for several minutes after being exposed to a bright light source (daylight, a car's headligh
etc.) even if being operated in complete darkness.

The image is not focused.
Adjust the focus of the eyepiece and the objective (see "Use and Testing" section). Check that the lenses are not f
dusty; if they are, carefully clean the external surfaces of lenses with a soft cotton fabric. Replace the battery if t
battery charge is less than 2.2V.
When the unit is brought into a warm environment from a cold one, condensation may appear on the internal len
must wait two hours before using the unit.

Visibility decreases or disappears.
Bright light sources, such as headlights, may cause visibility to decrease or disappear and the image to flicker. T
power off and turn the scope away from the light source; visibility will restore itself in several minutes.

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